

Product datasheet for **MG214363**

Gm13178 (NM_001085536) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Gm13178
Synonyms:	Gm437; OTTMUSG00000010750
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214363 representing NM_001085536
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGTTTTGGCTGGTGCTGATAGGAGGGCTGCTCACATTCTCCTGGGAGTCTTTGTATGGGTTT
TCATCCAGCACCTTCTCACTATTGAAATCCATCTACCTGAAGCATCCAGTCAAGCTATGGATTTTGCA
TTTGATTTCCAGTATTGATAACTTTGGGGACCACTAGAGAACTGAGAAATTTGTTCCATGCCTGCA
ATTTTACAGTTTTTTCAAGACCTAATAATAAAAAAGAAAGTTCCAAATGTGATAGTGACTGACACAC
GTTTTGGGACGGTACCTGTGAGGCTGTTCAAGGCCAAAGAGGTGTCTTCCAAACCCGGAGAGGCATCAT
ATTCTACCATGGAGGAGGTGCCGTATGTGGAAGCTGGACTTTTACCATGGCCTGGGCAATGTCCTTGCC
CATGAGACAGACTCAGTGGTCTTGTGGTGGGTACCGCAAGCTTCTGACCACCATCATCTGTGTTT
ACCTGGATTGCCTGAATGCTTCCATCCACTTCTGAAGAACCTTCAAACCTATGGGGTAGATCCCTCTCG
GGTGGTGATCTCTGGAGAAAGTATTGGAGTTGGACTGTGGCACTGTCACTCAGGCTTTGGTCAGTCAA
GCCATACTTCCCCAGATCAGGGCTCAAGTGTGATTACTCCAGTTTGCAGGGCATTAAATTTCCAGTTAC
CATCACACCAGCAGAAACAAAATGTCCATTGCTTACCAGAGACTAGTGATTACATTTGTTGTAGATA
CCTAAGCATTGACCTCTCTTGGAAAAATGCCATAGTGACAGGAGCTTTTGTGCCCTGGACACCTGGAAA
AAGTACAGCAAGTGGCTCAGCTCTGACAATATTCCAAAAGGTTTAAAGAGCAAAAAATCCATCCCAGT
TTCTGGGACCTTTTCAAGTACTGCTATCTAGAAACGAAGCATGTTTTCGATGTAACATCTCACCTCT
CCTAGCAGATGACAAGATCATTGCTCAACTTCCAGACACATTTCTGGTGGAGCTGTGAGCATGATTTCTC
CGGGATGATGCCTTGTCTACAAGAAGCGCTTGAAGACCAGGGGGTCTGTGTCTGGTACCATGCGG
AGGATGGCTTTCATGGCTGCATCAGTTTGTGATAAGCAGCCTTCTCTTCCCCTGCTCCATGAATGT
TTTAAATGCTGTCATCAGTTACATTAAGGATGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214363 representing NM_001085536
 Red=Cloning site Green=Tags(s)

MAGFWLVLIIGLLTFFLGVFVWVFIQHLLTIEIPSTLKHPVKLWILHLIFQYLITLGTILEKLRICSMIPA
 ILQFFQDLIIKKKVPNVIVTDRFGTVPVRLFRPKEVSSKPRRGIIFYHGGGAVCGSLDFYHGLGNVLA
 HETDSVLLVGYRKLDPHHPVVYLDCLNASIHFLKNLQTYGVDPSRVVISGESIGGWTVATVTQALVSQ
 AILPQIRAQVLITPGLQGINFQLPSHQKQNVPLLTRDLVITFVCRYLSIDLWKNIAIVTGAFVPLDTWK
 KYSKWLVSSDNIPKRFKSKKHFPEFLGPFSETAYLETKHVFDVNISPLLADDKIIAQLPDTFLVSCEHDVL
 RDDALLYKKRLEDQGVVSWYHAEDGFHGICISLFDKQPFSPFCSMNVLNAVISYIKDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001085536

ORF Size: 1224 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001085536.2](#)

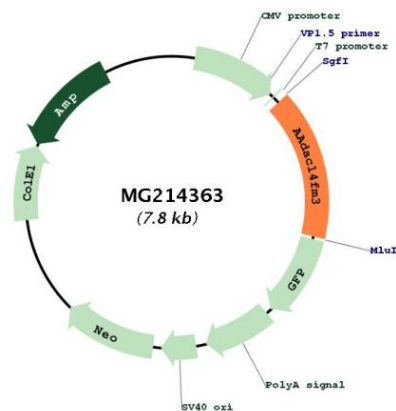
RefSeq Size: 1227 bp

RefSeq ORF: 1227 bp

Locus ID: 546849

Cytogenetics: 4 E1

Product images:



Circular map for MG214363